

# Leukemia Research

CELL & MOLECULAR BIOLOGY ■ PATHOPHYSIOLOGY ■ TREATMENT

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High-dose chemotherapy in adult acute myeloid leukemia: rationale and results

### Original Article

Study of clonality in myelodysplastic syndromes: detection of trisomy 8 in bone marrow cell smears by fluorescence *in situ* hybridization

### Commentary

Molecular cytogenetics and the myelodysplastic syndromes

### Original Articles

Diagnostic criteria for hypocellular acute leukemia: a clinical entity distinct from overt acute leukemia and myelodysplastic syndrome

535 R. Stasi, A. Venditti, G. Del Poeta, G. Aronica, E. Abruzzese, F. Pisani, M. Cecconi, M. Masi and S. Amadori

551 E. Abruzzese, D. Buss, R. Rainer, P. N. Rao and M. J. Pettenati

559 J. Anastasi

563 K. Nagai, T. Kohno, Yun-Xian Chen, H. Tsushima, H. Mori, H. Nakamura, I. Jinnai, T. Matsuo, K. Kuriyama, M. Tomonaga and J. M. Bennett

The dual expression of minor and major bcr/abl chimeric mRNA in blast crisis of chronic myelogenous leukemia  
Evaluation of monoclonal antibody-mediated anti-acute myeloid leukemia immunotherapy in a SCID/hu model

Stem cell factor and stromal cell co-culture prevent apoptosis in a subculture of the megakaryoblastic cell line, UT-7

Possible transforming activity of interferon regulatory factor 2 in tumorigenicity assay of NIH3T3 cells transfected with DNA from chronic myelogenous leukemia patients

Response of B-cell lymphoma to a combination of bi-specific antibodies and saporin

Very late antigen (VLA) expression by normal and neoplastic human plasma cells; including an assessment of antibodies submitted to the Vth International Workshop on Leucocyte Differentiation Antigens Using Human Myeloma Cell Lines

# Letters to the Editors

Cell size heterogeneity in AML—DNA ploidy as another possible association

Alpha-2a-interferon administration and FcγRIII expression on neutrophils from chronic myeloid leukemia

575 M. Tanaka, Y. Yamazaki, M. Hattori, K. Tsushita, M. Utsumi and S. Yoshida

581 Rui-kun Zhong, A. D. Donnenberg, L. D. Shultz, S. H. Swerdlow, E. Lee, J. Rubin, R. Kozii, Jian Chen, D. L. Griffin, J. Wilson and E. D. Ball

591 J. L. Liesveld, A. W. Harbol and C. N. Abboud

601 M. Futaki, K. Inokuchi, H. Hanawa, S. Tanosaki, K. Dan and T. Nomura

607 R. R. French, A. J. Bell, T. J. Hamblin, A. L. Tutt and M. J. Glennie

619 M. Drew, H. F. Barker, J. Ball, C. Pearson, G. Cook and I. Franklin

625 Y. L. Kwong

627 G. Carulli, F. Papineschi, A. Azzarà and F. Ambrogi

# Number 8

# Invited Review

Severe congenital neutropenia terminating in acute myeloid leukemia: disease progression associated with mutations in the granulocyte-colony stimulating factor receptor gene

629 I. P. Touw and F. Dong

# Original Articles

Promotion of IL8, IL10, TNFα and TNFβ production by EBV infection

633 S. C. Klein, D. Kube, H. Abts, V. Diehl and H. Tesch

Granulocyte-macrophage colony-stimulating factor dependent monocyte-mediated cytotoxicity post-autologous bone marrow transplantation

637 A. Nagler, I. Shur, V. Barak and I. Fabian

Failure to induce resistance to cytotoxic drugs in normal lymphocytes

645 P. Bentley, A. Thomas and J. Thomas

Study of chronic lymphocytic leukemia cells by FT-IR spectroscopy and cluster analysis

649 C. P. Schultz, Kan-zhi Liu, J. B. Johnston and H. H. Mantsch

Comparison of drug accumulation in P-glycoprotein-expressing and MRP-expressing human leukaemia cells

657 M. W. Davey, R. M. Hargrave and R. A. Davey

All-trans and 9-cis retinoic acid enhance 1,25-dihydroxyvitamin D<sub>3</sub>-induced monocytic differentiation of U937 cells

665 H. Nakajima, M. Kizaki, H. Ueno, A. Muto, N. Takayama, H. Matsushita, A. Sonoda and Y. Ikeda

Deoxycytidine kinase mRNA levels in leukemia cells with competitive polymerase chain reaction assay

677 H. Kawasaki, K. Shindou, M. Higashigawa, D.-C. Cao, H. Hori, M. Ido and M. Sakurai

Expression of Bcl-x in T cells

683 G. Y. Michaud, H. Kamesaki and J. Cossman

A sequential erythropoietin and GM-CSF schedule offers clinical benefits in the treatment of anaemia in myelodysplastic syndromes

693 P. Bernell, L. Stenke, J. Wallvik, E. Hippe and R. Hast

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The Hemopoietic Colony-stimulating Factors: From Biology to Clinical Applications

701 J. M. Bennett



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### Editorial

Appointment of Assistant Editors

703 J. M. Bennett and T. J. Hamblin

### Guest Editorial

Thrombopoietin and the physiology of platelet production

705 K. Kaushansky

### Original Articles

Hidden monosomy 7 in acute myeloid leukemia and myelodysplastic syndrome detected by interphase fluorescence *in situ* hybridization

709 M. Arif, K. Tanaka, C. Damodaran, H. Asou, T. Kyo, H. Dohy and N. Kamada

Mixed myelodysplastic and myeloproliferative syndromes

717 R. Neuwirtová, K. Mociková, J. Musilová, J. Jelinek, F. Havlicek, K. Michalová and M. Adamkov

A case-control study of myelodysplastic syndromes among Japanese men and women

727 M. Ido, C. Nagata, N. Kawakami, H. Shimizu, Y. Yoshida, T. Nomura and H. Mizoguchi

Relapse of acute promyelocytic leukemia follows serial negative RT-PCR assays: a cautionary tale

733 P. E. Devaraj, L. Foroni, G. H. Prentice, V. A. Hoffbrand and L. M. Secker-Walker

Actin mRNA is not lowered in chronic myeloid leukemic granulocytes

739 A. M. Kant, S. H. Advani and S. M. Zingde

Heterogenous effects of bryostatin on human myeloid leukemia clonogenicity: dose and time scheduling dependency

743 K. G. van der Hem, G. J. Schuurhuis, A. M. Dräger J. H. Odding and P. C. Huijgens

Synergistic effects of interleukin-11 with other growth factors on the expansion of hematopoietic progenitors from normal individuals and chronic myeloid leukemia patients resistant to treatment with cytosine arabinoside or Eilatin

751 M. Einat, A. Nagler, A. Amiel, M. D. Feigin, A. Rudi, Y. Kashman and I. Fabian

Mutation in the ligand-binding domain of the retinoic acid receptor alpha in HL-60 leukemic cells resistant to retinoic acid and with increased sensitivity to vitamin D<sub>3</sub> analogs

761 B. T. Doré and R. L. Momparler

Increasing methylation of the calcitonin gene during disease progression in sequential samples from CML patients

771 K. I. Mills, B. A. Guinn, V. A. Walsh and A. K. Burnett

*In vitro* activity on myeloid progenitors of a combination of 2-chloro-2'-deoxyadenosine and interferon alpha: the effects of IL-1 and GM-CSF

777 P. Ballarino, G. Castello, R. Lerza, A. Cerruti, G. Bogliolo and I. Pannacciulli

Ethacrynic acid and 1 $\alpha$ ,25-dihydroxyvitamin D<sub>3</sub> cooperatively inhibit proliferation and induce differentiation of human myeloid leukemia cells

781 M. Makishima and Y. Honma

Incidence of 5' *bcl-2* rearrangement in patients with B cell chronic lymphocytic leukemia from India

791 P. M. Parikh, S. Desai, K. N. Naresh, B. Shakuntaka, K. Laxminarayan, C. N. Nair, M. Ladanyi, C. S. Soman, S. H. Advani and R. S. K. Chaganti

### Comment

Adhesion molecules in acute myeloid leukemia

795 E. Paietta

### Book Review

Stem Cell Grafting From Hematological Rescue to Somatic Gene Therapy

799 T. Hamblin

## Number 10

### Concise Review

Molecular diagnosis and monitoring of acute myeloid leukemia

801 A. Biondi and A. Rambaldi

## Original Article

The murine myeloperoxidase gene contains a bipartite distal enhancer, including a novel region regulated by PEBP2/CBF

## Commentary

Control of myeloperoxidase gene expression in developing myeloid cells

## Original Articles

Growth of single HL60 cells in liquid culture: analysis of the influences of differentiative agents

Expression of thrombopoietin and thrombopoietin receptor MPL in human leukemia-lymphoma and solid tumor cell lines

Expression of CD44 variant isoforms in peripheral blood leukocytes in malignant lymphoma and leukemia: inverse correlation between expression and tumor progression

Characterization of the AKR thymic microenvironment and its influence on thymocyte differentiation and lymphoma development

## Clinical Article

Combined differentiating therapy for myelodysplastic syndromes: a phase II study

## Brief Communication

Lymphocytes from CML patients lack a 47 kDa factor having affinity for a genomic sterol regulatory sequence

809 A. D. Friedman, M. Britos-Bray and J. Suzow

817 G. E. Austin, Wei-Guo Zhao, A. Adjiri and Ji-Pu Lu

821 L. A. Wallington, J. Durham, C. M. Bunce and G. Brown

831 G. Graf, U. Dehmel and H. G. Drexler

839 S. Khaldoyanidi, M. Achtnich, R. Hehlmann and M. Zöller

853 G. M. Davey, C. L. Tucek-Szabo and R. L. Boyd

867 D. Ferrero, B. Bruno, P. Pregno, S. Stefani, E. Larizza, G. Ciravegna, A. Luraschi, G. Vietti-Ramus, P. Schinco, M. Bazzan, E. Gallo and A. Pileri

877 R. Goel, D. Kaul and S. Varma

## Number 11/12

## Guest Editorial

The myelodysplastic syndromes in 1996: complex stem cell disorders confounded by dual actions of cytokines

## Original Articles

Measurement of apoptosis, proliferation and three cytokines in 46 patients with myelodysplastic syndromes

RAS gene mutations in Chinese leukaemia patients and members of a family with high incidence of leukaemia  
Extramedullary blast crisis in chronic myeloid leukemia

The value of the monoclonal antibody, DBA44, in the diagnosis of B-lymphoid disorders

Effect of stem cell factor on leukemic progenitor cell growth and sensitivity to cytosine-arabinoside

Enhanced delivery of synthetic oligonucleotides to human leukaemic cells by liposomes and immunoliposomes

881 A. Raza, S. A. Gregory and H. D. Preisler

891 V. Shetty, S. Mundle, S. Alvi, M. Showel, L. Broady-Robinson, S. Dar, R. Borok, J. Showel, S. Gregory, S. Rifkin, S. Gezer, A. Parcharidou, P. Venugopal, R. Shah, B. Hernandez, M. Klein, D. Alston, E. Robin, C. Dominquez and A. Raza  
901 L.-Z. He, J. Stephenson, G. Y. He and G. J. Mufti

905 G. Specchia, G. Palumbo, D. Pastore, D. Mininni, A. Mestice and V. Liso

909 F. Salomon-Nguyen, F. Valensi, X. Troussard and G. Flandrin

915 J.-F. Viallard, C. Grosset, F. Lacombe, S. David, F.-X. Mahon, C. Barbot, I. Vianes, M. Dupouy and J. Reiffers

925 D. D. F. Ma and Ai-Qun Wei

Characterization of newly established human myeloid leukemia cell line (KF-19) and its drug resistant sublines

Failure of cyclosporine to induce graft-vs-host disease or graft-vs-leukemia after syngeneic bone marrow transplantation in mice

The effect of edelfosine on CTP:cholinephosphate cytidyltransferase activity in leukemic cell lines

Reactivity of anti-AraC-resistant cell monoclonal antibody, YU-311, in formalin-fixed paraffin-embedded specimens of various hematopoietic disorders

Isolation and phenotypic characterization of CD117-positive cells

Results of treatment with an intensive induction regimen using idarubicin in combination with cytarabine and etoposide in children with acute myeloblastic leukemia

### Case Reports

A child case of CD34<sup>+</sup>, CD33<sup>+</sup>, HLA-DR<sup>+</sup>, CD7<sup>+</sup>, CD56<sup>+</sup> stem cell leukemia with thymic involvement

Translocation (9;17) a novel translocation in acute myeloid leukaemia

### Short Communication

Purging effect of dibutyl phthalate on leukemic cells associated with apoptosis

### Letters to the Editors

Comparison of haematological recovery kinetics after myeloablative therapy between sibling allogeneic bone marrow and peripheral blood progenitor cell transplantation in the same adult acute lymphoblastic leukaemia patient

Diffuse large cell lymphoma presenting as inflammatory bowel disease in an adolescent with ataxia telangiectasia

### Book Review

An Atlas of Malignant Haematology: Cytology, Histology and Cytogenetics

931 T. Fukuda, T. Kamishima, T. Kakiyama, Y. Ohnishi and T. Suzuki

941 S. Singhal, U. Vourka-Karussis, J. Mehta, S. Slavin and L. Weiss

947 W. R. Vogler, M. Shoji, D. J. Hayzer, Y. P. Xie and M. Renshaw

953 T. Fukuda, T. Kakiyama, T. Kamishima, T. Yamada, M. Uchiyama, T. Suzuki, K. Kishi and A. Shibata

963 S. Neu, A. Geiselhart, S. Kuçi, F. Baur, D. Niethammer and R. Handgretinger

973 F. Sackmann-Muriel, P. Zubizarreta, M. S. Felice, G. Chantada, A. M. Cygler, M. Gallego and J. Rossi

983 T. Nagata, M. Higashigawa, M. Nagai, Xiao Li Zhang, E. Azuma, Y. Komada and M. Sakurai

987 S. A. Brown, B. Czepulkowski and R. Ireland

989 Wang Lisheng, Wu Chutse, Pei Xuetao, Xu Li, Cao Jurong and He Fuchu

993 M. Stockschröder, H. T. Hassan, W. Krüger, H. Kabisch and A. Zander

997 G. Kapoor, R. J. Albrecht, R. Craver, C. Duncan and R. P. Warrier

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